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June 13, 1997

Federation - 2000 on Commission Carlo Barrey

VIA HAND DELIVERY

Mr. William F. Caton Acting Secretary Federal Communications Commission 1919 M Street, N.W. Room 222 Washington, D.C. 20554

Advanced Television Systems and Their Impact Upon the

Existing Television Broadcast Service (MM Docket No.

87-268)

Petition for Reconsideration

Dear Mr. Caton:

WRNN-TV Associates Limited Partnership, through counsel, hereby files the enclosed Petition for Reconsideration of the <u>Sixth Report and Order</u> in the above-captioned proceeding. contact the undersigned if you have any questions.

Sincerely

Enclosures

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FEDERAL COMMUNICATIONS COMMISSION

WASHINGTON, DC 20554

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In the Matter of)			JUN 13 1997
Advanced Television Systems and Their Impact Upon the)	MM Docket	⊢ No	· 3 1997
Existing Television Broadcast Service)	PMI DOCKE	. 110.	F8d7 #268 Commission

To: The Commission

PETITION FOR RECONSIDERATION

of Station WRNN-TV, Kingston, New York, hereby files this Petition for Reconsideration of the Commission's <u>Sixth Report and Order</u> (FCC 97-115, released April 21, 1997) in the above-captioned proceeding. Specifically, WRNN seeks clarification of the <u>Sixth Report and Order</u> with respect to the protection of a station's DTV Grade B service contour to the same extent as its present NTSC Grade B contour. Furthermore, WRNN seeks clarification of the provision of the <u>Sixth Report and Order</u> which provides television licensees with the ability to return to their original NTSC channels at the end of the DTV transition. Finally, WRNN seeks reconsideration of the <u>Sixth Report and Order</u> to the extent that DTV Channel 21 was allotted to Kingston, New York, and reserved for Station WRNN-TV.

Background

2. Station WRNN-TV, which currently operates on NTSC Channel 62, provides regional news programming to its community of license and to communities throughout the New York City Area of Dominant Influence ("ADI"). Station WRNN-TV, like most television

broadcasters, exercises its must-carry rights to the fullest extent within its ADI.

- 3. In the <u>Sixth Report and Order</u>, the Commission allotted DTV Channel 21 for Station WRNN-TV. While the Commission estimates that this channel will result in a DTV/NTSC area match of 99%, the attached engineering analysis indicates that the Grade B contour of the DTV service area will be significantly less than that of the current NTSC service area. Reduction of the Grade B contour would decrease the total population served by Station WRNN-TV, and may adversely affect the station's must-carry rights on certain cable systems as well.
- 4. Although the Commission has indicated that a station will be permitted to request an increase in operating power to provide service to that station's Grade B contour, it is uncertain whether Station WRNN-TV will be able to avail itself of this rule. Station WLIW-TV, Garden City, New York, which currently operates on NTSC Channel 21, has been allotted DTV Channel 22. That station may be able to return to its NTSC channel after the transition period, as the Sixth Report and Order notes that such changes are permissible "wherever feasible." If Station WLIW-TV is permitted to return to

Sixth Report and Order at B-32.

 $^{^{2}}$ See Engineering Statement at figure 5.

 $^{^{3}}$ See Sixth Report and Order at n.70 and 47 C.F.R. § 73.622(f)(3).

 $^{^4}$ Sixth Report and Order at ¶ 84. Station WRNN-TV cannot return to its original NTSC channel, as Channel 62 is outside of the core spectrum.

Channel 21, the channel could preclude WRNN from replicating its existing Grade B coverage, thereby disserving the public interest by causing the loss of Station WRNN-TV's unique programming to individuals living within the current NTSC Grade B contour, but outside of the proposed DTV Grade B contour.

Discussion

- 5. WRNN seeks clarification from the Commission that stations such as Station WRNN-TV, which may lose crucial Grade B coverage as a result of the DTV transition, will be able to make power and height modifications necessary to ensure that DTV Grade B coverage is the equivalent of existing NTSC Grade B coverage. Such steps will ensure that existing viewers of a station will continue to receive the same complement of over-the-air signals and will also ensure that stations continue to enjoy the same must-carry rights following the DTV conversion as they do today.
- 6. WRNN also requests clarification of the circumstances in which a television station will not be able to return to its NTSC channel. Specifically, would a station be able to return to its original NTSC channel even if operation on that channel would preclude another station from replicating its NTSC Grade B coverage on its DTV channel?
- 7. WRNN recognizes that the Commission may not be able to provide assurances in this proceeding that Station WRNN-TV will be able to operate on DTV Channel 21 with a Grade B contour identical to that of its current NTSC operation. In that event, WRNN requests that the Commission substitute DTV Channel 48 for DTV

Channel 21 at Kingston, New York. 5 As the attached engineering analysis indicates, the allotment of DTV Channel 48 to Kingston will result in a dramatic reduction of net interference as compared to DTV Channel 21. The use of Channel 21 would result in interference to 799,000 persons in a 1,313 square kilometer area, whereas the use of Channel 48 at an equivalent power level would cause interference to only 68,000 persons in a 1,061 square kilometer area. Furthermore, increasing the effective radiated power of Station WRNN-TV on DTV Channel 48 to ensure replication of its current Grade B contour would cause interference to only 313,000 persons--far fewer than would receive interference caused by the use of DTV Channel 21 at the power authorized by the Commission in the <u>Sixth Report and Order</u>. As decreasing net interference resulting from the DTV transition, as well as the continued provision by Station WRNN-TV of service to its current service area, are both clearly in the public interest, WRNN requests the substitution of Channel 48 for Channel 21 at Kingston.

⁵WRNN previously requested the allotment of DTV Channel 48 at Kingston in this proceeding. <u>See</u> Comments of WRNN-TV Associates Limited Partnership in MM Docket No. 87-268, filed November 22, 1996.

⁶Engineering Statement at 3.

⁷Engineering Statement at 4-5. Furthermore, the interference level could be reduced through the use of a directional antenna. <u>Id</u>. at 5.

Conclusion

8. For the reasons stated above, WRNN respectfully requests clarification of the <u>Sixth Report and Order</u> regarding protection of the DTV Grade B contour and the circumstances in which a station can return to its original NTSC allotment following the DTV transition. WRNN requests reconsideration of the <u>Sixth Report and Order</u> to the extent that DTV Channel 21 was allotted to Kingston, New York, and requests in its place the allotment of DTV Channel 48.

Respectfully submitted,

Ann K. Ford Michael Ruger

Counsel for WRNN-TV Associates Limited Partnership

Baker & Hostetler 1050 Connecticut Avenue, NW Suite 1100 Washington, DC 20036-5304

Telephone (202) 861-1500

Filed: June 13, 1997

TECHNICAL STATEMENT IN SUPPORT OF THE PETITION FOR RECONSIDERATION OF THE SIXTH REPORT AND ORDER IN MM DOCKET NO. 87-268

This technical statement and associated exhibits were prepared on behalf station WRNN at Kingston, New York in support of a Petition for Reconsideration of the Sixth Report and Order in MM Docket No. 87-268 in which the Commission adopted a Table of Allotments for digital television (DTV), rules for initial DTV allotments, procedures for assigning DTV frequencies and plans for spectrum recovery. The purpose is to provide technical information supporting a request to change the allotment channel of WRNN from channel 21 to channel 48.

Station WRNN is currently authorized to operate on channel TV channel 62 (758-764 MHz) with a using a directional antenna with a maximum effective radiated power (ERP) of 5000 kW and an antenna height above average terrain (HAAT) of 591 meters. (FCC File No. BLCT-851224KF). In the Sixth Report and Order in MM Docket No. 87-268 (DTV Docket), the FCC has proposed channel 21 for WRNN's DTV allotment with a maximum ERP of 93.8 kW at the current HAAT of 591 meters. Station WRNN requests that the Commission modify the WRNN DTV allotment to specify channel 48 in lieu of channel 21. As detailed below, it appears that DTV operation on channel 48 will provide greater interference-free service, will result in less interference caused to other stations and will permit greater flexibility for a possible increase in facilities.

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Page 2 Kingston, New York

Figure 1 is a separation study for the channel 21 DTV allotment based on the minimum distance separation requirements of "new" Section 73.623(d). Three shortspacings are indicated.

Using a DTV interference analysis program available through the National Telecommunications and Information Agency (NTIA), we have determined the predicted service and interference for WRNN's current DTV operation on channel 21 (ERP 93.8 kW/HAAT 591 m). NTIA program uses Version 1.2.2 of the Longley-Rice point-to-point radio propagation model. Figure 2 depicts the service and interference for the current DTV channel 21 allotment. The map shows the outline of the predicted Grade B contour, and the regions of calculated interference from other NTSC and DTV operations. clear or unshaded area indicates where WRNN provides interference-free service. The current channel 21 DTV allotment will provide interference-free service to 1,514,000 persons within 14,950 square kilometers. The current channel 21 DTV allotment is predicted to cause interference to the following stations:

		DTV Interference Areas
		(square kilometers)
Call/Location	Channel	Current DTV CH 21
WTXX, Waterbury, CT	NTSC-20	245
WNBU, Concord, NH	NTSC-21	77
WXXA, Albany, NY	NTSC-23	83
WLIW, Garden City, NY	NTSC-21	893
WHMT, Schenectady, NY	NTSC-17	15
WWLP, Springfield, MA	NTSC-22	0
WCDC, Adams, MA	NTSC-19	0
WWTI, Watertown, NY	DTV-21	0
WHP, Harrisburg, PA	NTSC-21	0
WSBE, Providence, RI	DTV-21	0
	Total	1,313 sq. km

Page 3 Kingston, New York

The population within the total interference area resulting from the channel 21 DTV operation will be 799,000 persons.

Figure 3 is a separation study for the channel 48 DTV allotment based on the minimum distance separation requirements of "new" Section 73.623(d). Three shortspacings are indicated.

Figure 4 depicts the service and interference for the proposed DTV channel 48 allotment based on an ERP of 169 kW (determined based on the provisions of Appendix B of the DTV Docket). The map shows the outline of the predicted Grade B contour, and the regions of calculated interference from other NTSC and DTV operations. The clear or unshaded area indicates where WRNN provides interference-free service. The proposed channel 48 DTV allotment will provide interference-free service to 1,643,000 persons within 13,850 square kilometers. The proposed channel 48 DTV allotment is predicted to cause interference to the following stations:

		DTV Interference Areas (square kilometers)
Call/Location	Channel	Proposed DTV CH 21
Call/Location	Chamier	Proposed DIV Ch 21
WEDW, Bridgeport, CT	DTV-49	7
WYDN, Worcester, MA	NTSC-48	1,005
WLED, Littleton, NH	DTV-48	2
WGTW, Burlington, NJ	NTSC-48	8
WNJU, Linden, NJ	NTSC-47	39
	Total	1,061

The population within the total interference area resulting from the proposed channel 48 DTV operation (ERP 169 kW) will be 68,000 persons.

Figure 5 is a map which depicts the NTSC 64 dBu, Grade B contour based on WRNN's licensed facilities on channel 62. Also shown is the DTV 41 dBu, noise

Page 4 Kingston, New York

limited contour based on the current channel 21 DTV operation (ERP 93.8 kW/HAAT 591 m). As indicated, the 41 dBu for the channel 21 DTV allotment does not extend as far as the current NTSC Grade B contour in any direction except towards the northwest. The disparity is especially apparent towards the south, a critical area for WRNN, and occurs due to the Commission's use of a "dipole factor" when determining the ERP necessary to replicate the NTSC Grade B contour. In order match Grade B coverage towards, WRNN proposes that the FCC specify an ERP of 258 kW for the channel 48 DTV operation. The DTV 41 dBu, noise limited contour based on an ERP of 258 kW and an HAAT of 591 meters has also been shown on Figure 5.

Figure 6 depicts the service and interference for the proposed DTV channel 48 allotment based on an ERP of 258 kW. The map shows the outline of the predicted Grade B contour, and the regions of calculated interference from other NTSC and DTV operations. The clear or unshaded area indicates where WRNN provides interference-free service. The proposed channel 48 DTV allotment will provide interference-free service to 2,043,000 persons within 18,850 square kilometers. The proposed channel 48 DTV allotment is predicted to cause interference to the following stations:

		DTV Interference Areas (square kilometers)
Call/Location	Channel	Proposed DTV CH 21
Call/bocation	Chamiei	Proposed Div Cir Zi
WEDW, Bridgeport, CT	DTV-49	11
WYDN, Worcester, MA	NTSC-48	2,345
WLED, Littleton, NH	DTV-48	5
WGTW, Burlington, NJ	NTSC-48	289
WNJU, Linden, NJ	NTSC-47	71
WYDC, Corning, NY	NTSC-48	11
WMHT, Schenectady, NY	DTV-34	4
WMHQ, Schenectady, NY	DTV-45	4
	Total	2,740

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Page 5 Kingston, New York

The population within the total interference area resulting from the proposed channel 48 DTV operation (ERP 258 kW) will be 313,000 persons. It is believed that a properly designed directional antenna would permit a reduction in this interference area.

Finally, the following provides a summary of the population and area within the service and interference areas for the current and proposed DTV allotments.

	Total Int	erference-	Total			
	Free Ser	vice Area	Interference Area			
	Area		Area			
DTV Facilities	(sq. km)	Population	(sq. km)	Population		
FCC Proposed Ch. 21						
ERP 93.8 kW/HAAT 591 m	14,950	1,514,000	1,313	799,000		
Proposed Ch. 48						
ERP 169 kW/HAAT 591 m	13,850	1,643,000	1,061	68,000		
Proposed Ch. 48						
ERP 258 kW/HAAT 591 m	18,850	2,043,000	2,740	313,000		

If there are any questions concerning this exhibit, please contact the office of the undersigned.

W. Jeffrey Reynolds

du Treil, Lundin & Rackley, Inc. 240 North Washington Blvd. Suite 700 34236

Sarasota, Florida

(941) 366-2611

June 11, 1997

DTV -> TV Separation Study

Job Title : WRNN - DTV CH 21 Separation Buffer 32 km Zone : 1 FCC TV DB Date : 06/06/97 Coordinates: 42-05-06 74-06-00 Channel 21 (512-518 MHz) Channel ERP(kW) Latitude Bear. Dist. Status St FCC File No. Zone HAAT(m) Longitude True (km) WMHT SCHENECTADY *17(+) 2630 42-38-13 7.5 61.85 24.1/80.5 LIC NY BLET-331 I 299 74-00-06 -18.65 SHORT ALLOCATED TO ALBANY-SCHENECTADY, NY. 18(-) 3160 41-46-30 107.4 113.11 24.1/80.5 WHCTTV HARTFORD LIC CT BLCT-870304KI I 299 72-48-04 32.61 CLEAR WCDCTV ADAMS 42-38-14 50.9 98.25 24.1/80.5 19(0) 447 LIC MA BLCT-810105KE I 637 73-10-07 17.75 CLEAR WTXX WATERBURY 20(o) 2240 41-31-04 124.8 109.77 9.7/88.5 LIC CT BLCT-820428KE I 366 73-01-07 21.27 CLEAR CLEAR WLIW GARDEN CITY *21(-) 3160 DA 40-47-19 159.3 153.82 217.3 LIC NY BLET-790131LQ I 122 73-27-09 **-63.48** SPRINGFIELD 22(o) 3390 DA 42-05-05 89.5 115.53 9.7/88.5 WWLP LIC MA BLCT-841128KJ I 268 72-42-14 27.03 CLEAR WWLP SPRINGFIELD 22(o) 4470 DA 42-05-05 89.5 115.53 9.7/88.5 APP MA BMPCT-930826KE I 267 72-42-14 27.03 CLEAR DA TABULATIONS UNAVAILABLE. WXXATV ALBANY 23(-) 3020 DA 42-37-01 6.9 59.53 24.1/80.5 LIC NY BLCT-820810KG I 366 74-00-46 **-20.97** SHORT ALLOCATED TO ALBANY-SCHENECTADY, NY. WEDH HARTFORD *24(o) 813 41-46-27 107.5 112.79 24.1/80.5 LIC CT BLET-341 I 262 72-48-20 32.29 CLEAR

^{**} End of TV Separation Study for Channel 21 **

DTV ->DTV Separation Study

 Job Title :WRNN - DTV CH 21
 Separation Buffer 32 km

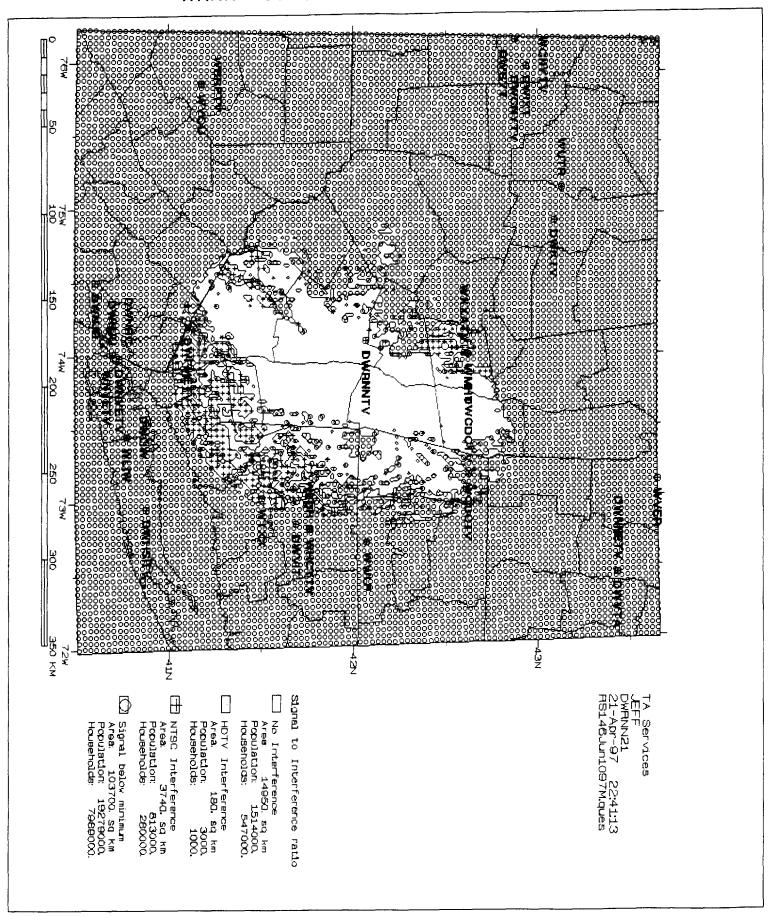
 Zone : 1
 FCC DTV DB Date: 05/09/97

 Channel 21 (512-518 MHz)
 Coordinates : 42-05-06 74-06-00

Call Status	City St FCC File No.	-	* ' '	Latitude Longitude			Req. (km)
DWRNNTV DTVALT	KINGSTON NY	21 I	93.80 591	42-05-06 74-06-00	.0	.00	
DWSBETV DTVALT	PROVIDENCE RI	21 I	50.00 182	41-48-18 71-28-24	97.3	220.02 23.72	196.3 CLEAR

^{**} End of DTV Separation Study for Channel 21 **

WRNN - Current DTV CH 21 (ERP 93.8 kW)



DTV -> TV Separation Study

 Job Title :WRNN - CH 48 DTV
 Separation Buffer 32 km

 Zone : 1
 FCC TV DB Date : 05/30/97

 Channel 48 (674-680 MHz)
 Coordinates : 42-05-06 74-06-00

		,							
Status	St	C FCC File No.	Zone	TAAH	'(m)		e True	(km)	(km)
WGGBTV LIC		NGFIELD BLCT-871117KE							
LIC	NY	NECTADY BLCT-850114KJ TO ALBANY-SCHE	I	338		42-37-37 74-00-40	6.9	60.65 -19.85	24.1/80.5 SHORT
		ESTER BMPET-930914KL							
WYDN APP		ESTER BMPET-950407KQ							
WYDC LIC	CORNI NY	ING BLCT-940920KE	48(+) I	12 166	DA	42-09-43 77-02-15	273.0	243.07 25.77	217.3 CLEAR
WGTW APP		NGTON BPCT-950706KF							
WGTW CP		NGTON BPCT-840104KL							
WEDW LIC		EPORT BLET-870908KE							
WNJN LIC	MONTC NJ	LAIR BLET-860805KG	*50(+) I	2090 243		40-51-53 74-12-03	183.6	135.80 55.30	24.1/80.5 CLEAR
ALLOC.		FIELD -							24.1/80.5 CLOSE
APP	MA	FIELD BPCT-960724LI WAIVER OF FREE	I						
		RDAM BLCT-871221KG		5000 223		42-59-05 74-10-49			
		TON BLCT-851224KF				42-05-06 74-06-00			24.1/80.5 CLEAR
		N BLCT-940913KE				41-00-36 74-35-39			24.1/80.5 CLEAR

^{**} End of TV Separation Study for Channel 48 **

DTV -> DTV Separation Study

 Job Title :WRNN - CH 48 DTV
 Separation Buffer 32 km

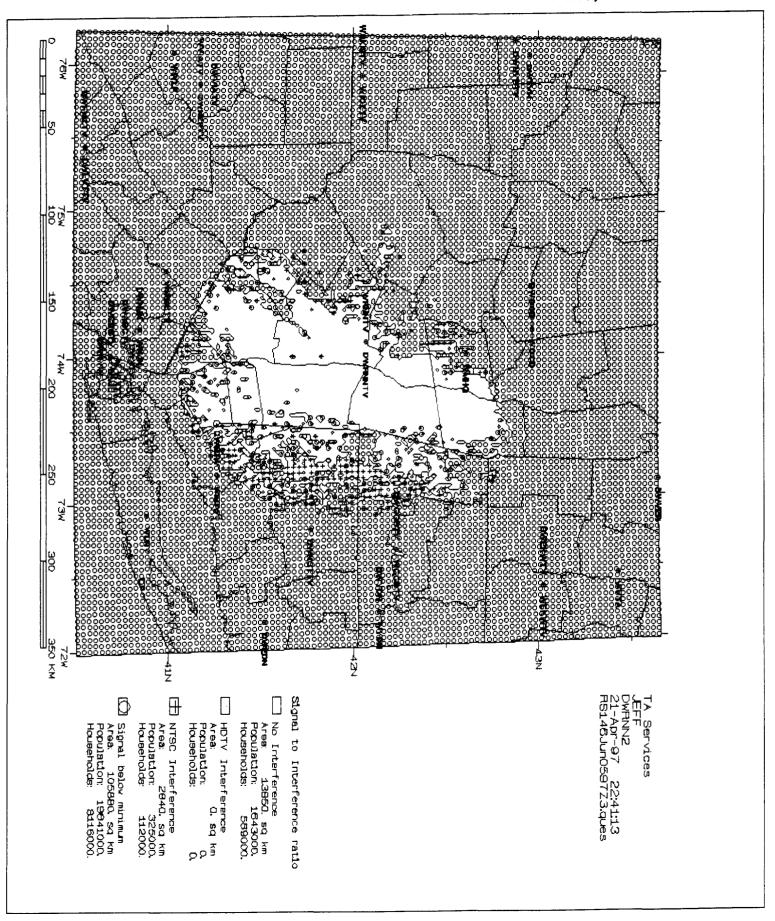
 Zone : 1
 FCC DTV DB Date: 05/09/97

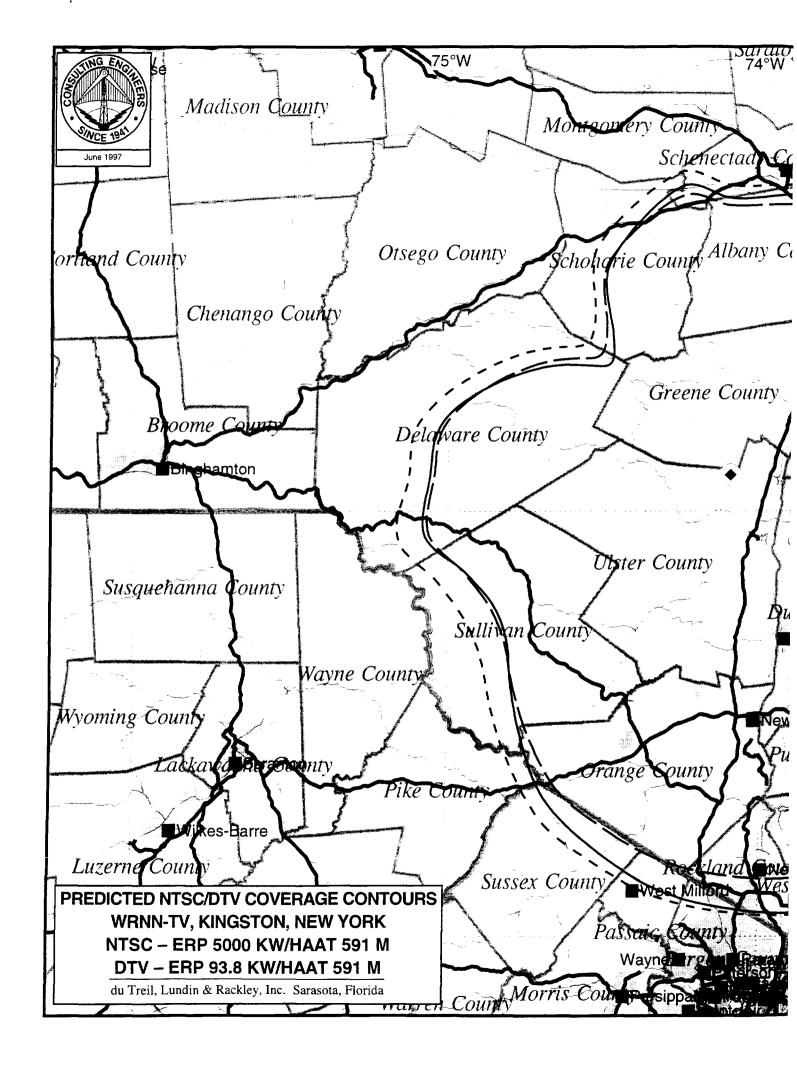
 Channel 48 (674-680 MHz)
 Coordinates : 42-05-06 74-06-00

Call City Channel ERP(kW) Latitude Bear. Dist. Req. Status St FCC File No. Zone HAAT(m) Longitude True (km) (km)

No DTV records located on this channel & within the required separation plus a safety factor.

WRNN - Proposed DTV CH 48 (ERP 169 kW)





WRNN - Proposed DTV CH 48 (ERP 258 kW)

